SIGGRAPH 2001 FUNDAMENTALS SEMINAR



Michael J. Bailey

San Diego Supercomputing Center & University of California at San Diego

Wayne E. Carlson

Advanced Computing Center for Arts & Design (ACCAD) at the Ohio State University

Jackie White

College of Arts and Letters California State University, Los Angeles

Barb Helfer



Goals for the day:

- An accessible introduction to computer graphics *jargon*, concepts, techniques, technologies and applications.
- SIGGRAPH the organization, conference, and volunteering
- Pathfinders assistance in navigating the conference



- Computer Graphics Applications (Jackie White)
- Graphics Systems Software (Wayne Carlson)
- Graphics Systems Hardware (Mike Bailey)
- SIGGRAPH (Jackie White)
- Pathfinders (Barb Helfer)



Special Thanks to:

- SIGGRAPH 2001
 - Lynn Pocock, Conference Chair
 - Lou Harrison, Courses Chair
- SIGGRAPH Contributors & Collections
 - Slide Collections
 - Media trailer, video clips
- Other Slide & Video Contributors



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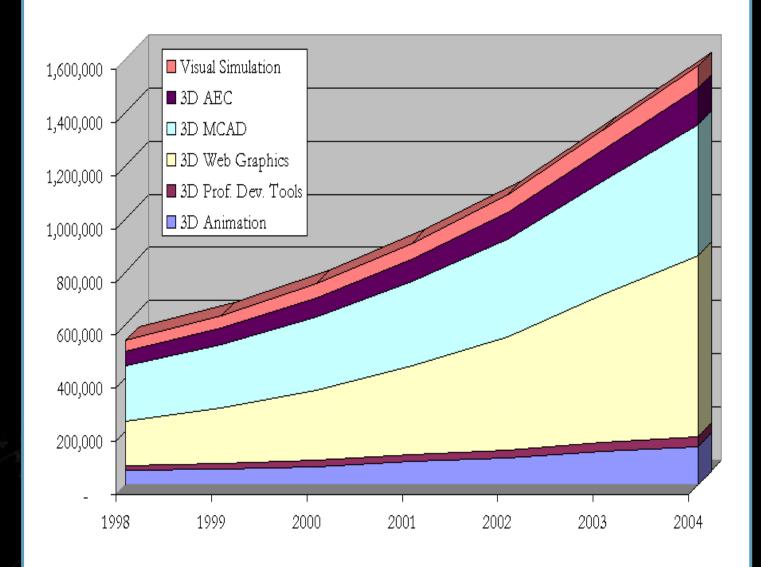
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Barb Helfer



Current 3D Software Trends

Annual Unit Shipments for 3D Software

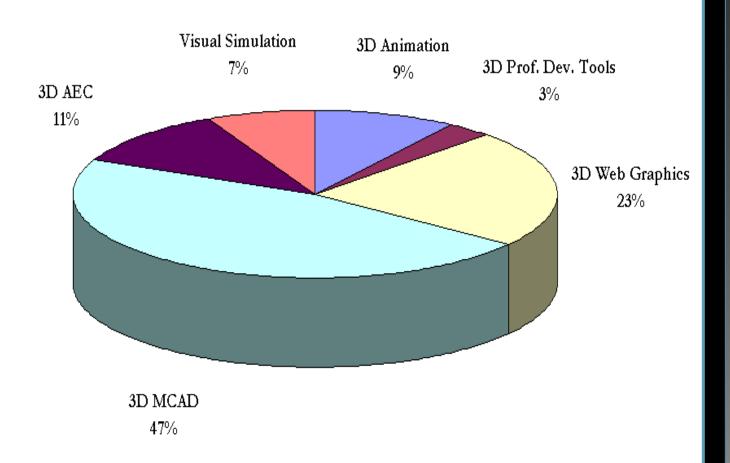


Source: M2 Research



3D Software Application Breakdown

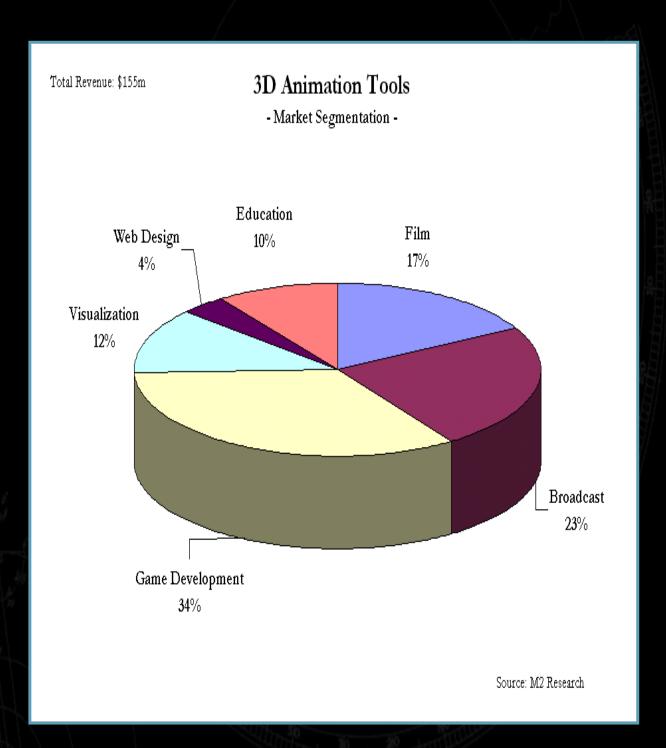
Breakdown of 3D Software by Application - 2000



Source: M2 Research



Animation Segment





Animatio

n



A collection of autonomous rovers and space vehicles that may be part of the scientific exploration of Mars © 2000 Jet Propulsion Laboratory California Institute of Technology



Animatio n



Wild Jungle - Motion ride ©2000 Shinji Torigoe, Shingo Yasumaru SEGA Corporation



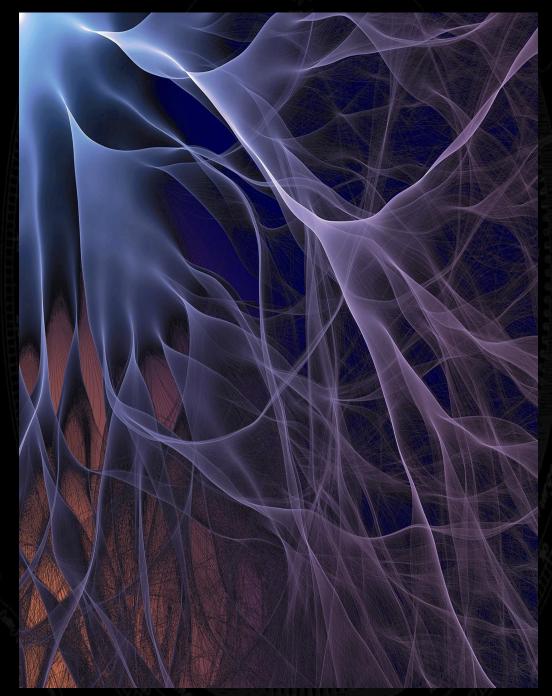
Animation - Scientific Visualization



Capitol Zoom ©2000 Gregory W. Shirah, NASA/GSFC Scientific Visualization Studio



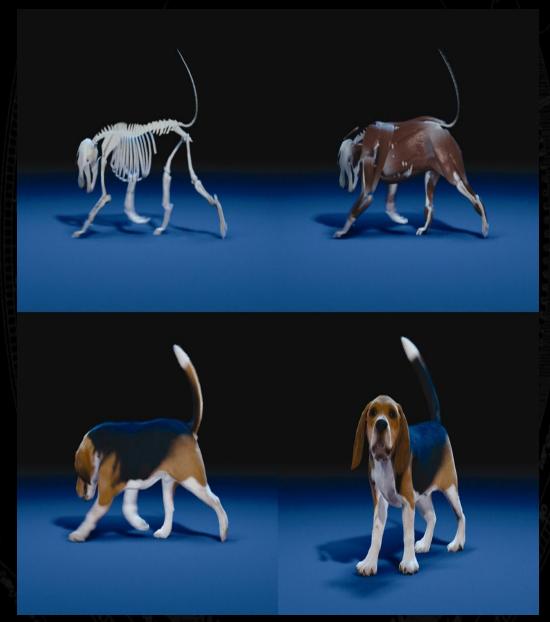
Art



Transport VI ©2000 Eric Heller

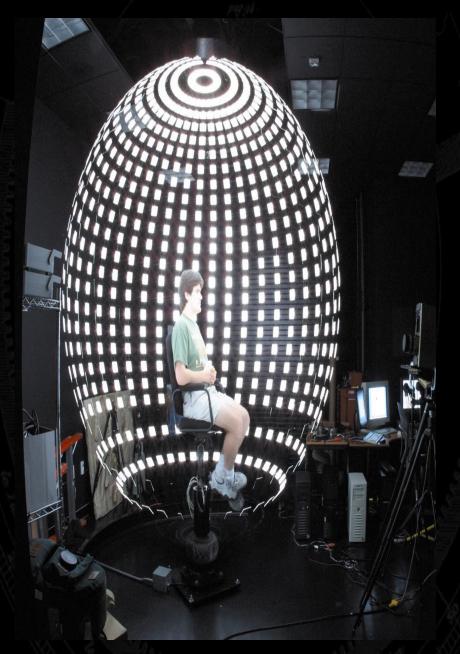


Modelin g



Skinning Cats and Dogs Using Muscle Deformations © 2000 Rhythm & Hues Studios

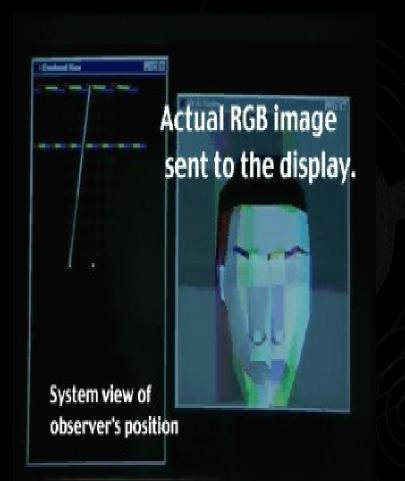
Lighting



Light Stage 2.0 © 2000 Institute for Creative Technologies



Stereoscopy



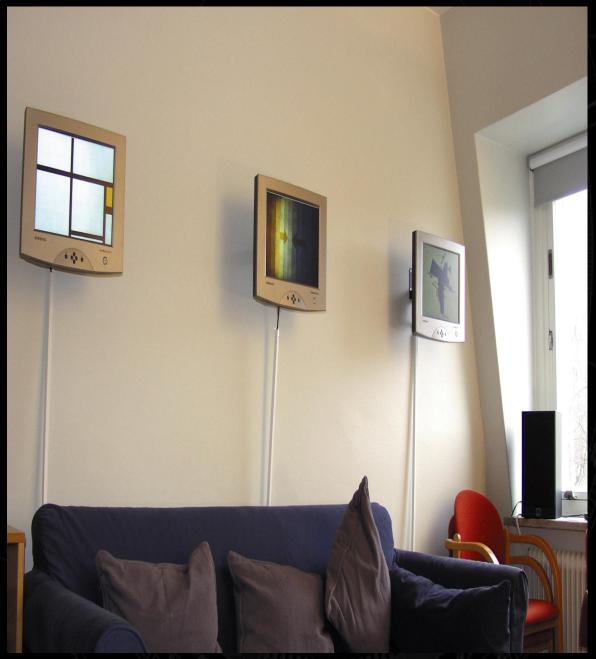


Autostereoscopic image of a virtual face ©2000 Ken Perlin, Salvatore Paxia, Joel S. Kollin Media Research Laboratory, Dept. of Computer Science New York University



Interacti

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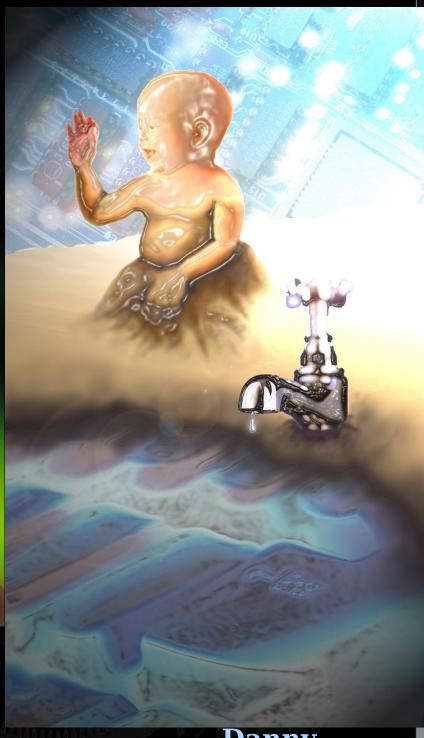


Informative Art © 2000 PLAY - Interactive Institute



Educatio n





Robert Negrete

Danny Chung

Los Angeles County High School for the



ACM Organization

Assoc. for Computing Machinery Council & Executive Committees

SIG Governing Board ACM HQ Staff

SIGACT

SIGGRAPH

SIGWEB

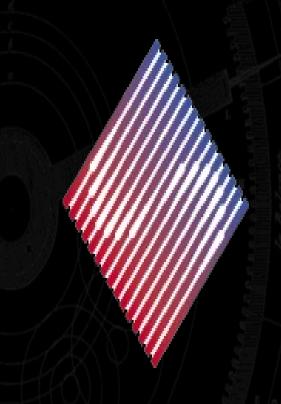
37 Special Interest Groups (SIGs) •



ACM SIGGRAPH

Executive Committee (EC)

> Conference **Advisory** Group (CAG)



SIGGRAPH 2001 Conference CommitteeConference Committee

SIGGRAPH 2002



ACM SIGGRAPH

Executive Committee (EC)

> Conference **Advisory** Group (CAG)

Executive Committee (EC)

President Past

President

Vice President

Education

Treasurer

Publications

Communications Δt

Large (2)

Chapters CAG

Chair

Ex Officio: CSE & ACM

Program Dir

SIGGRAPH 2001 Conference Committe Conference Committee

SIGGRAPH 2002



ACM SIGGRAPH

Executive Committee (EC)

> **Conference Advisory** Group (CAG)

Conference Advisory Group CAG Chair EC Reps (2) Chair S2000 Chair **S2002 Chair S2001 Chair S2003 Ex Officio: Chief Staff Executive** (CSE)

SIGGRAPH 2001 Conference Committe Conference Committee

SIGGRAPH 2002



SIGGRAPH Conference Programs

Technical:

- Papers
- Panels
- Courses
- Sketches & Applications
- EducatorsProgram
- CAL (hands-on)

Other Programs:

- Art Gallery: N-Space
- Computer Animation Festival
- EmergingTechnologies
- The Studio (hands on)



SIGGRAPH Conference Programs

Services & Activities:

- Exhibition & Exhibitor Forums
- Keynote Address
- BOFs
- Receptions
- SpecialSessions

- Pathfinders(Mentoring)
- Career Center
- •Job Fair
- •International Resources
- •Internet Access Rooms



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